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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,158	10/31/2003	Jeffrey D. Carnevali	NPI-019	9849
7590 09/07/2006			EXAMINER	
Charles J. Rupnick			STERLING, AMY JO	
PO Box 46752 Seattle, WA 98146			ART UNIT	PAPER NUMBER
,			3632	
			DATE MAILED: 09/07/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Assists Commence	10/698,158	CARNEVALI, JEFFREY D.			
Office Action Summary	Examiner	Art Unit			
	Amy J. Sterling	3632			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 14 A	ugust 2006.				
	,_				
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.				
Disposition of Claims					
4)⊠ Claim(s) <u>1-3 and 5-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-3 and 5-21</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
 Certified copies of the priority document 	 Certified copies of the priority documents have been received. 				
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)					
1) Motice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08)	4) ☐ Interview Summary Paper No(s)/Mail Da 5) ☐ Notice of Informal P	ite			
Paper No(s)/Mail Date 6) Other:					

DETAILED ACTION

This is a non-final Office Action for application number 10/698,158 Flexible Support Arm, filed on 10/31/03. Claims 1-3, 5-21 are pending. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/14/06 has been entered.

Claim Rejections - 35 USC § 103

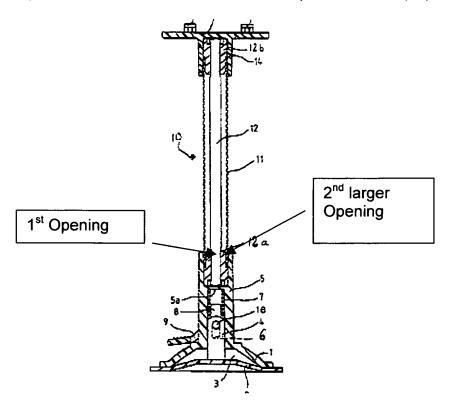
Claims 1-3, 5, 6, 8-10, 14-16 and 17-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 6749160 to Richter and in view of United States Patent No. 4020575 to Kruger et al.

Richter teaches the basic inventive including teaching a flexible support apparatus (10) having a support base (10) having an opening in one surface and a mounting bracket having an opening (13) in one surface and a permanently bendable continuously solid metal rod of substantially constant cross section, the rod being made of aluminum (12, See Col. 3 line 9 for rod material) having a first end installed in the opening of the support base and fused direction to the support base and having a

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second end installed in the opening of the mounting means and fused directly to the mounting bracket and wherein the opening in the support base and mounting bracket have a second larger opening (Inner and outer openings, See Drawing Below) into which a flexible sheath (11) if inserted. Richter teaches the method forming a support base, forming a mounting bracket and fusing a length of the rod to the tubular apertures of the base and the bracket, a flexible plastic sheath (11) disposed around the metal rod (12) between the support base and the mounting bracket and wherein the bracket and the base both have a respective counter-bore which is substantially concentric with the respective tubular aperture and sized to admit the flexible plastic sheath (11).



Richter does not teach that a welded/ultrasonically welded joint is formed directly between the first end of the metal rod and the support base and that the base or that the base and bracket are formed of ultrasonically weldable plastic Richter also does not

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teach the method of ultrasonically welding the plastic or metal to fetal fusible by conventional means. Richter does teach that there is a joint formed directly between the first end of the metal rod and the support base.

Kruger et al. teaches a device with ultrasonically weldable plastic and the method of using ultrasonically weldable plastic used for securely bonding two elements together. (See Col. 1, line 37 and Col. 2, line 12).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teachings of Kruger et al. to have fused any pieces together either by welding or by using an ultrasonic weldable plastic in order to secure elements together, welding and weldable plastic both being well known in the art at the time of the invention. It would also be obvious to have had metal to metal fused, the choice of any suitable material being obvious.

Claims 13, 20 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 6749160 to Richter and in view of United States Patent No. 4020575 to Kruger et al.as applied to claim 9 above and further in view of United States Patent No. 6811146 to Giralt.

Richter and Kruger et al. teach the basic inventive concept, including the method of installing a flexible sheath (10) around a solid metal rod (16).

Richter and Kruger et al. do not teach that the support base and mounting bracket are made of aluminum or the method of forming a support base and mounting bracket of weldable aluminum material.

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Giralt teaches a aluminum that is weldable material (See Col. 4 lines 39-41) and it would have been obvious to one having ordinary skill in the art at the time the invention was made from the teachings of Giralt to have made the device and its parts of any suitable material or method of forming them from any suitable material, in order to easily attach the components to each other.

Claims 7, 11, 12 is rejected under 35 U.S.C. 103(a) as being unpatentable over United States Patent No. 6749160 to Richter and in view of United States Patent No. 4020575 to Kruger et al. as applied to claim 10 above and further in view of United Sates Patent No. 6637642 to Lingnau.

Richter and Kruger et al. and show the basic inventive concept as shown above with the exception that they do not teach that the metal rod is made of upset metal finish prior to welding or an upset surface material or the method of upsetting the metal around the rod.

Lingnau discloses solid state welding including teaching that the upset finish prior to welding of the metal can and will affect the welding profile. (See Col. 8, lines 6-24). Therefore it would have been obvious to make the metal tubing with an upset finish on the surface, in order to further change the welding characteristics of the metal rod.

Response to Arguments

The applicant has argued that the term "fused" is not met by the term "firmly connected. This is unpersuasive in that it is evident that the joint as taught by Richter is

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intended to be firmly secured and "welding" or "fusing" is an obvious way to connect a joint, the process, method and structure of which was well known at the time of the invention. The applicant's structure has not become novel because one of its joints is "welded, ultrasonically welded or fused".

The applicant has argued that Richter does not teach a "second larger opening".

This is unpersuasive because it is evident from the rejection above that the sheath fits into the second larger opening of the mounting bracket.

The applicant has argued that Richter does not teach that the aluminum rod is connected to the support plate. The applicant has narrowly interpreted the term "connected" to mean something it does not. The aluminum rod is clearly connected to the plate, even if there are other in elements in between, aiding in this connection.

The applicant has argued that Kruger fails to teach a weld joint formed directly between the first end of the metal rod and the support base. As discussed above, securing two elements together with a weld joint is not new, but an obvious way to attached the desired device.

Conclusion

Any inquiry concerning this communication should be directed to Amy J. Sterling at telephone number 571-272-6823. The examiner can normally be reached (M-F 8 a.m.-5:00 p.m.). The fax machine number for the Technology center is 571-273-8300 (formal amendments) or 571-273-6823 (informal amendments only). Any inquiry of a general

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nature or relating to the status of this application should be directed to the Technology Center receptionist at 571-272-3600.

Amy J. Sterling Primary Examiner

8/31/06